

# INTERNATIONAL SEARCH REPORT

Intern: Application No  
PCT/JP2004/015569

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L51/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2003 078 731 A (KABUSHIKI KAISHA TOSHIBA) 8 October 2003 (2003-10-08) the whole document & US 2004/018386 A1 (HASEGAWA REI ET AL) 29 January 2004 (2004-01-29) the whole document	1-32
A	EP 1 087 448 A (SEMICONDUCTOR ENERGY LAB) 28 March 2001 (2001-03-28)  paragraph '0007! - paragraph '0015! paragraph '0035! - paragraph '0038! paragraph '0127!  ----- -/--	8, 16, 18-20, 27, 31

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

21 January 2005

Date of mailing of the international search report

08/02/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	A. R. COOPER, R. G. BOOTH: "Purification of Polymeric Dyes by Ultrafiltration" J APPL POLYM SCI MAR 1 1979, vol. 23, no. 5, 1 March 1979 (1979-03-01), pages 1373-1384, XP002314546 the whole document	
A	EP 1 063 869 A (IDEMITSU KOSAN CO) 27 December 2000 (2000-12-27) the whole document	
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 347 (C-1219), 30 June 1994 (1994-06-30) & JP 06 087911 A (MITSUBISHI RAYON CO LTD), 29 March 1994 (1994-03-29) abstract	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern:

Application No

PCT/JP2004/015569

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
KR 2003078731	A		NONE	
US 2004018386	A1	29-01-2004	JP 2003297581 A JP 2003338379 A JP 2003338380 A	17-10-2003 28-11-2003 28-11-2003
EP 1087448	A	28-03-2001	EP 1087448 A2 JP 2001214159 A US 6641933 B1 US 2004079923 A1	28-03-2001 07-08-2001 04-11-2003 29-04-2004
EP 1063869	A	27-12-2000	EP 1063869 A1 JP 3290432 B2 US 6617051 B1 CN 1298623 T WO 0041443 A1 JP 2002175885 A JP 2004327454 A JP 2004327455 A US 2004007971 A1	27-12-2000 10-06-2002 09-09-2003 06-06-2001 13-07-2000 21-06-2002 18-11-2004 18-11-2004 15-01-2004
JP 06087911	A	29-03-1994	JP 3264384 B2	11-03-2002